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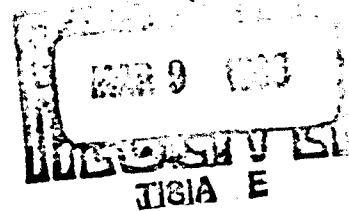
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(7) RESEARCH MEMORANDUM

(6) The Combat Subjects and Corresponding Proficiency Levels Essential to the 1962 Training Program for the Light Weapons Infantryman (MOS 111.0).

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(11) Dec ~~1958~~, (12) Sep.

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Timely comments or suggestions pertinent to the initial phases of the research project reported in this Memorandum are solicited. Communication may be effected, either directly or through military channels, to U.S. Army Human Research Unit, P.O. Box 2086, Fort Benning, Georgia. Only comments prior to 1 January 1960 can be utilized in this research project.



Preston S. Abbott
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CONTENTS

	Page
INTRODUCTION	1
FACTORS TO BE CONSIDERED IN TRAINING THE LWI OF 1962	3
COMBAT SUBJECTS AND LEVELS OF PROFICIENCY	5
FUTURE RESEARCH ACTIVITIES IN TASK RIFLEMAN	10
IMMEDIATE VALUE TO THE ARMY	10
SUMMARY	11
APPENDIX	12

The Combat Subjects and Corresponding Proficiency
Levels Essential to the 1962 Training Program
for the Light Weapons Infantryman (MOS 111.0)

INTRODUCTION

Army concepts of doctrine, organization, and materiel are undergoing extensive modification to meet current and future military requirements. Successful implementation of the new concepts requires suitable modification of training.

The research mission of Task RIFLEMAN as assigned by US Continental Army Command is "to improve the combat proficiency of the light weapons infantryman by developing a new Advanced Individual Training Program for the Light Weapons Infantryman."^{1/} This new program is to be oriented around the doctrinal, organizational, and materiel concepts to be in effect in 1962.

As the first phase of the required research, the staff of Task RIFLEMAN has determined the essential combat subjects to be included in the training program for the Light Weapons Infantryman (LWI) MOS 111.0 and the general levels of proficiency required in each subject.

As a prerequisite to the research, comprehensive studies were made of small unit combat experiences in World War II and Korea, previous

^{1/} Memo for Record, 10 March 1958, Subject: "24th Meeting of USCONARC Personnel Research Advisory Committee." Approved by letter, Chief Research and Development, Department of Army (CRD/J 7266), 2 June 1958. From: Chief Human Factors Research Division. To: Director, Human Resources Research Office, Subject: "FY 59 Work Program."

research in the areas of small group leadership and small group functioning, and tactical doctrine for the ROCID rifle platoon. The authors attended briefings and held conferences with members of the U. S. Army Infantry School, received official guidance from U. S. Continental Army Command, and considered changes in weapons as well as tactics projected for 1962 and beyond.

With this background, subjects required for a course of instruction were developed. The minimum level of proficiency required of the Light Weapons Infantryman to join a 1962 unit, either in training or in combat, was defined.^{1/}

The resultant product is, therefore, not a revision in Army Training Programs (ATP's) 21-114 (Basic Combat Training) and 7-17 (Advanced Individual Training). Rather, this paper constitutes a complete and fresh analysis of the training requirements for the LWI, based on combat projected to 1962. Simplicity of approach, the nature of the analysis, and conditions anticipated for 1962 have dictated that many combat subjects in ATP 21-114 and ATP 7-17 for the LWI be broken down into their components, some eliminated, and others added.

Whereas the combat subjects listed in par 15 b, c, and d of ATP 21-114 (26 Nov 56) and par 19a (1) and (2) ATP 7-17 (11 Aug 58) do represent a present day counterpart of the projected combat subjects for 1962, no counterpart is known to exist for the minimum levels of combat proficiency which are delineated in this paper.

^{1/} The essential subjects and levels of proficiency were developed in coordination with, and with the concurrence of, the U. S. Army Infantry School, Ft Benning, Georgia.

Included as an appendix to the report are selected bibliographic items which were extracted from source papers prepared by the U. S. Army Infantry Human Research Unit. These source papers summarize pertinent future doctrine, past combat, and previous research, and furnish a general guide for development of future training programs.

FACTORS TO BE CONSIDERED IN TRAINING THE LWI OF 1962

Assumptions

1. The ultimate objective of the Infantry soldier's training is to make him effective in combat.
2. The soldier qualified in MOS 111.0 may normally be integrated into a unit that is undergoing training but, in an emergency, is minimally qualified for direct entry into combat.
3. Those military subjects which contribute to combat proficiency are essential to the soldier's training; those which serve objectives other than combat proficiency are not. Subjects not essential to combat proficiency, which are included in basic individual combat training for other purposes, should be listed for elimination when the emergency dictates.
4. Training during peace time will be conducted under conditions paralleling mobilization.

Levels of Combat Proficiency

The following four levels of combat proficiency were defined after careful consideration of minimum requirements for the Light Weapons Infantryman to effectively enter a combat situation.

Level I: Trained in a given subject to the degree that the individual has a basic knowledge of concepts and procedures.

Level II: Trained in a given subject to the degree that the individual has a basic knowledge of concepts and procedures and the procedures can be performed under supervision.

Level III: Trained in a given subject to the degree that the individual has a thorough knowledge of concepts and procedures and the procedures can be independently performed.

Level IV: Trained in a given subject to the degree that the individual has a thorough knowledge of concepts and procedures and the procedures are spontaneously performed under varying conditions (situations).

As a result of further research in each subject, considerations of the availability of time, problems of logistics, and difficulty of proper training techniques may require an adjustment in these levels as they apply to each subject. However, based upon prior research, the level of combat proficiency indicated in each subject is considered minimal for the Light Weapons Infantryman to participate in combat with reasonable effectiveness.

Conditions of Training

To train the Light Weapons Infantryman under routine training conditions will not be sufficient. It is anticipated that much of future combat will be carried out under conditions of limited visibility, both natural and artificial; that there will be a real and continuing threat from chemical, biological and/or radiological warfare; and that combat, generally, will be even more stressful than in the past. For these reasons it is considered essential that training be conducted under realistic conditions.

Climate and terrain are variables over which there can be little or no control. Though it would be desirable to have training conducted in an environment which would prepare the light weapons infantryman for all conditions of climate and terrain, the location and physical make up of U. S. Army Training Units dictate a realistic and middle-of-the-road approach in these areas. The program is being developed, therefore, on the assumption that training will be conducted in temperate climates on terrain which will offer no special problems. Commanders will find it necessary no doubt to make minor modifications to fit their particular training conditions. In addition, under the assumption that specialized training will be conducted independent of the Advanced Individual Training Program, no consideration is given to training under extreme conditions of climate and terrain.

COMBAT SUBJECTS AND LEVELS OF PROFICIENCY

The objective of the Advanced Individual Training Program for the Light Weapons Infantryman is to produce a well disciplined, physically conditioned soldier with sufficient training to be integrated into a military organization as a Light Weapons Infantryman. To accomplish this objective for the Infantry of 1962, it is proposed that the program complete the training of the Light Weapons Infantryman in the following essential combat subjects to the level of combat proficiency indicated.

WEAPONS	<u>Minimum Level of Combat Proficiency</u>
Rifle (U.S. Caliber .30 M1 and US caliber .30 M14)	IV
Hand Grenades (Fragmentation, smoke, etc)	IV

WEAPONS (CON'T)	Minimum Level of Combat Proficiency (Con't)
Automatic Rifle (BAR and M15)	IV
Machine Gun (M-60)	III
Rifle Grenades (Launchers & Grenades) (Includes sq. AT Wpn or substitute)	III
Pistol (Automatic)	III
Bayonet or Knife	III
Platoon Anti-tank weapon (3.5" RL M20A1B1 or substitute)	III
Mines, Anti-tank (M7A2, M6A2, M15 and M19 or substitute) Anti-personnel (M2A4, M14 and M16 or substitute)	III
Booby Traps and Demolitions	II
Mortars (.81MM and 4.2")	II
Heavy (Co) Anti-tank wpns. (106 MM RRM 40A1 or substitute)	II
Flame Thrower (portable and mechanized)	I
Other Infantry Flat Trajectory Weapons	I
Armor	I
Artillery	I
Air	I

COMMUNICATIONS

Command

Arm and Hand Signals	IV
Pyrotechnics	III
Radios	
Individual Radio	IV
AN/PRC-6 (or substitute)	III

COMMUNICATIONS (CON'T)	Minimum Level of Combat Proficiency (Con't)
<u>Command (Con't)</u>	
AN/PRC-10 (or substitute)	III
AN/PRC-12 (or substitute)	II
Telephone and wire	
Reel equipment CE-11	II
Telephone set TA 1/TT	II
TA 312 Telephone	II
Transmission Security	IV
Panel Set V17CVX	I
Message Writing	III
Emergency SWED SB 16/GT	I
<u>Individual to Individual</u>	
Auditory	IV
Visual	IV
TRANSPORTATION	
<u>Movement by Foot</u>	IV
<u>Movement by Vehicle</u>	
Mech. mule (includes emergency opn)	III
Truck (includes emergency opn)	III
Tank (M48A2 and M41 or substitute)	II
APC (M59 and T113 or substitute) (includes emergency opn)	III
Helicopter (H34, H37, and H40 or substitute)	II
Fixed wing aircraft	II
Boat (assault craft)	II

INDIVIDUAL COMBAT TRAINING	<u>Minimum Level of Combat Proficiency (Con't)</u>
<u>Field Survival</u>	
Physical Conditioning	IV
First Aid	IV
Personal Hygiene	IV
Field Sanitation	IV
Maintenance of Clothing & Equip.	IV
Fieldcraft	III
Code of Conduct and Evasion & Escape	III
Psychological Conditioning*	IV
<u>Land Navigation</u>	
Movement	IV
Terrain Appreciation, Evaluation, Utilization	IV
Maps	III
Compass	IV
Aerial Photos	II
<u>Emplacement and Construction</u>	
Field Fortification	III
Obstacles	III
Fields of Fire	III

*Psychological Conditioning includes control of fear, and reactions to the deterrents of survival (pain, cold, thirst, hunger, fatigue, boredom and loneliness). During the training program these are really imposed conditions and should not be considered in the same light as military subjects.

INDIVIDUAL COMBAT TRAINING (CON'T)	Minimum Level of <u>Combat Proficiency (Con't)</u>
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Reconnaissance and Security

Stealth	IV
Observation	IV
Reporting	IV
Light and Noise Discipline	IV
Combat Intelligence	I
Counter Intelligence	I
Use of Detection Devices	I
Cover	IV
Concealment	IV
Camouflage	IV
CBR	III
Protection Against Mines & Booby Traps	III

SQUAD TACTICS IN OFFENSIVE, DEFENSIVE AND RETROGRADE
MOVEMENTS TO INCLUDE PATROLLING

Formations and Battlefield Plays	IV
Technique of Squad Fire	IV
Preparation for Tactical Operations on Short Notice	IV
Utilizing Surprise and Security Measures	III
Operating While Sustained Personnel and Equipment Losses	III
Interchanging Duties with Other Squad Members (non-leader)	III
Utilizing Supporting Fires	III
Operating with Armor	II
Operating Against Armor	III

SQUAD TACTICS IN OFFENSIVE, DEFENSIVE AND
RETROGRADE MOVEMENTS TO INCLUDE PATROLLING
(CON'T)

Minimum Level of
Combat Proficiency (Con't)

Operating Over Prolonged Periods of Time	III
Operating As An Isolated Unit or Part of An Isolated Unit	II
Combat Feeding Procedures	III
Duties of Leaders (Team and Squad)	II
Operating Against Airborne Operation	II

FUTURE RESEARCH ACTIVITIES IN TASK RIFLEMAN

The contents of this paper will serve as a foundation for developing detailed lists of critical combat performances, skills and knowledges required in each subject, e.g., Observation is a subject under Individual Combat Training, Security Techniques. A list of critical performances, knowledges and skills relevant to Observation will be compiled. These lists will in turn serve as a basis for subsequent testing and training research.

IMMEDIATE VALUE TO THE ARMY

Although prepared to serve as a basis for the development of a new training program oriented toward the organizational, doctrinal, and materiel concepts of 1962, this paper may serve as a basis for command personnel charged with replacement training to reexamine curricula with the view to bringing combat requirement and training programs into closer harmony. The subjects and levels of combat proficiency listed herein for 1962 should warrant consideration for use as criteria or training goals

for current replacement training programs, if necessary allowances for differences in current weapons are made.

It is therefore hoped that the "Minimum Levels of Proficiency" will be of value to commanders in reaching a balance, subject-by-subject, of emphasis for their training programs.

SUMMARY

This report constitutes the completion of the first phase of Task RIFLEMAN. The content of the report establishes, for subsequent research, the essential combat subjects of the new training program for the Light Weapons Infantryman (MOS 111.0) of 1962 and the corresponding minimum level of performance required in each subject. It also includes, for such use as is considered warranted, suggestions which may be helpful in enabling command personnel charged with replacement training to assess their current curricula.

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